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NOTICE OF ALLOWANCE AND FEE(S) DUE

67232

7590

11/26/2008

CANTOR COLBURN, LLP - IBM ARC DIVISION 20 Church Street 22nd Floor Hartford, CT 06103 EXAMINER

YALEW, FIKREMARIAM A

ART UNIT

PAPER NUMBER

2436

DATE MAILED: 11/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,725	11/26/2003	Hongxia Jin	ARC920030051US1	9783

TITLE OF INVENTION: TAMPER-RESISTANT TRUSTED JAVA VIRTUAL MACHINE AND METHOD OF USING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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									(Signature)
									(Date)
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10/723,725	11/26/2003	•	Hongxia Jin			AR	C920030051US1		9783
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EXAM		ART UNIT	CLASS-SUBCLASS						
YALEW, FIKE	REMARIAM A ence address or indication	2436	713-187000 2. For printing on the second se	.1					
FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The field below, no assignee eletion of this form is NOT	data will appear on t	he pa g an a	tent. If an assignossignment.			ocume.	nt has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up ent	tity 🗖 Government
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OTE: The Issue Fee and	d Publication Fee (if requ	uired) will not be accepted tes Patent and Trademark	d from anyone other th						
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CANTOR COLB	URN, LLP - IBM A	YALEW, FIKREMARIAM A			
20 Church Street		ART UNIT	PAPER NUMBER		
22nd Floor Hartford, CT 0610	3		2436 DATE MAILED: 11/26/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 797 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 797 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/723,725	JIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Fikremariam Yalew	2436	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 09/18/2008. The allowed claim(s) is/are 1-11,21-31 and 41-51. Acknowledgment is made of a claim for foreign priority under the properties of the communication and the communication appears to the communication are selected.	(OR REMAINS) CLOSED in or other appropriate communication is second and MPEP 1308.	this application. If not included inication will be mailed in due cou ubject to withdrawal from issue a	urse. THIS
a) ☐ All b) ☐ Some* c) ☐ None of the:			
1. Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	been received in Applicatio	n No	
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage application	າ from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or		102 01
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	•	v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37 CF	R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview St Paper No./ 7. ☑ Examiner's	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowa	ince

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 09/18/2008,08/11/2006,05/17/2004.

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DETAILED ACTION

1. This office action correspondence is a response to the applicant's amendment filed on 09/18/2008. After reconsideration of the applicant's Request for continued examination filed on 09/18/2008, further search and through examination of the present application, claims 1-11,21-31,41-51 are found to be in condition for allowance over prior arts of record.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Greg, O'Bradovich on October 15,2008.

The applicant has been amended as follows:

Please canceled claims 12-20,32-40,52-60.

In line 2 of claim 21, please insert "stored on storage medium" after "codes".

Allowable Subject Matter

3. Claims 1,21,41 are patentable over the closest references Scott Oaks(hereinafter referred as Scott)(Java security May 2001) in view of Lee et al(hereinafter referred as Lee) US Pub No 2002/0147763 A1 because Scott and Lee do not anticipate nor fairly and

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reasonably teach a method/system/computer program product for running a tamperresistant application in a trusted environment, comprising: defining a trusted virtual machine environment that contains a trust application for protecting data, wherein the trusted dictionary having an associated secure count, comprises a subclass of a standard base class dictionary using any class that allows a storing and retrieving of data values, wherein the trusted dictionary contains keywords and values encrypted with a secret including a key, and wherein the trusted dictionary includes a list of public keys, wherein each time the secure count is incremented during operation of the application, the trusted dictionary is placed into an irreversible state, such that the trusted dictionary cannot be placed into a pervious state by replacing a file associated with the trusted dictionary with an older version of the file; verifying the integrity of the application; wherein, if the application is tampered with, the trusted virtual machine environment prevents the application form accessing the secret in the trusted dictionary, and further prevents changing of the trusted dictionary to the previous state, thus disabling the normal operation of the application.

Conclusion

- 6. Claims 1-11,21-31,41-51 are patentable.
- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on statement of Reasons for allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fikremariam Yalew whose telephone number is 5712723852. The examiner can normally be reached on 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser, can be reached on 5712738300. The fax phone number for the organization where this application or proceeding is assigned is 571-272-4195.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fikremariam Yalew 10/15/2008 FA

/Nasser G Moazzami/ Supervisory Patent Examiner, Art Unit 2436